What is claimed is:

- 1. A vacuum fluorescent display comprising:
- 2 a front glass member which has light
- 3 transmission properties at least partly;
- 4 a substrate opposing said front glass member
- 5 through a vacuum space;
- a phosphor film formed on a surface of said
- 7 front glass member which opposes said substrate and
- 8 having a predetermined display pattern;
- 9 an electron-emitting portion mounted on said
- 10 substrate to oppose said phosphor film and having an
- 11 electron-emitting surface corresponding to the display
- 12 pattern;
- an electron extracting electrode arranged in
- 14 the vacuum space between said electron-emitting portion
- 15 and said phosphor film to be spaced apart from said
- 16 electron-emitting portion by a predetermined distance;
- 17 and
- 18 an insulating support member formed on said
- 19 substrate and adapted to support said electron
- 20 extracting electrode and divide the electron-emitting
- 21 surface of said electron-emitting portion into a
- 22 plurality of regions.
 - 2. A display according to claim 1, wherein said
 - 2 insulating support member comprises at least one

- 3 partition for dividing the electron-emitting surface of
- 4 said electron-emitting portion into a plurality of
- 5 regions.
 - 3. A display according to claim 2, wherein said
- 2 partition comprises partitions that are arranged
- 3 substantially equidistantly to be parallel to each other.
 - 4. A display according to claim 3, wherein the
- 2 partitions have heights of 0.2 mm to 2.0 mm each and are
- 3 arranged at an interval 1/2 to 5 times the height.
 - 5. A display according to claim 2, wherein said
- 2 partition divides the electron-emitting surface of said
- 3 electron-emitting portion into a plurality of
- 4 electron-emitting regions of almost the same shape.
 - 6. A display according to claim 5, wherein the
- 2 electron-emitting surface of said electron-emitting
- 3 portion is divided into a plurality of stripe regions
- 4 parallel to each other.
 - 7. A display according to claim 5, wherein
- 2 said insulating support member has an opening
- 3 corresponding to the display pattern, and
- 4 said partition is integrally formed with said
- 5 insulating support member so as to divide the opening

- 6 into a plurality of slit-like divisional openings.
 - 8. A display according to claim 1, wherein said
- 2 electron extracting electrode is formed of a mesh-like
- 3 metal plate, and is supported by said insulating support
- 4 member to be spaced apart from the electron-emitting
- 5 surface by a predetermined distance.
- 9. A display according to claim 1, wherein said
- 2 electron extracting electrode is formed of a conductive
- 3 film formed at a top of said insulating support member.
 - 10. A display according to claim 1, wherein said
- 2 electron-emitting portion is formed of a large number of
- 3 carbon nanotubes formed of cylindrical graphite layers.
 - 11. A display according to claim 1, wherein said
- 2 electron-emitting portion comprises
- 3 a plate-like metal member having a large
- 4 number of through holes and serving as a growth nucleus
- 5 for nanotube fibers, and
- a coating film formed of a large number of
- 7 nanotube fibers formed on a surface of the metal member
- 8 and on walls of the through holes.
 - 12. A display according to claim 1, wherein said
- 2 electron-emitting portion and said phosphor film

- 3 comprise a plurality of sets of electron-emitting
- 4 portions and phosphor films provided in the vacuum space
- 5 in one-to-one correspondence for each display pattern.